
Subject: image interplate and overlay lat/lon?

Posted by [beardown911](#) on Wed, 22 Aug 2012 15:57:48 GMT

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Hello all,

My goal is to take an image(s) and overlay geographic lat/lon information onto the image. I have lat/lon information of four boundaries and tried to create a regular grid using them.

I've used David's code to generate a regular lat/lon grid, and tried to interpolate image with gridded lat/lon data.

However, outImage looks blank and only geographin lat/lon data are shown with 0 image pixel values. I am working on 8-bit tif images.

Would anybody give me some tips how to make this work or what I did wrong?

Thanks in advance,

Kim

P.S. Below is what I've been working on.

```
;-----  
; image(0,0)locates at the upper left corner  
xOrigin = maxLon  
yOrigin = maxLat  
  
xscale = (maxLon - minLon)/nS  
yscale = (maxLat - minLat)/nL  
  
uvec = Findgen(nS) * xscale + xOrigin  
vvec = yOrigin - (Findgen(nL) * yscale)  
  
uarray = Rebin(uvec, nS, nL)  
varray = Rebin(Reform(vvec, 1, nL), nS, nL)  
  
outImage = Interpolate(inImage, varray, uarray)  
.  
. .  
geoTag = { $  
    ModelTiepointTag: [0.0, 0.0, 0.0, xOrigin, yOrigin, 0.0], $  
    ModelPixelScaleTag: [xscale, yscale, 0.0], $  
    GTModelTypeGeoKey: 2, $ ; (ModelType Geographic)  
    GTRasterTypeGeoKey: 2, $ ; (RasterPixelsPoint)  
    GeographicTypeGeoKey: 4326 $ ; (WGS84)  
}
```

```
WRITE_TIFF, outImage, GEOTIFF = geoTag
```

```
;-----
```
